

Title (en)

CATALYTIC CONVERTING PROCESS FOR PRODUCING PROLIFICALLY DIESEL OIL AND LIQUEFIED GAS

Title (de)

KATALYTISCHES UMWANDLUNGSVERFAHREN ZUR HERSTELLUNG VON DIESELÖL UND VERFLÜSSIGTEM GAS

Title (fr)

PROCEDE DE PRODUCTION DE DIESEL ET DE GAZ LIQUEFIE PAR TRANSFORMATION CATALYTIQUE

Publication

**EP 1205530 A1 20020515 (EN)**

Application

**EP 00938463 A 20000620**

Priority

- CN 0000166 W 20000620
- CN 99109195 A 19990623

Abstract (en)

A process for catalytic cracking hydrocarbon stocks to increase simultaneously the yields of diesel oil and liquefied gas, carrying out in a riser or fluidized-bed reactor, which comprises: (a) Gasoline stock, an optional pre-lifting medium, and a catalytic cracking catalyst are charged into the bottom of the reactor and they contact in the lower zone of the reactor to produce an oil-gas mixture with a lot of liquefied gases; (b) The resultant oil-gas mixture and the reacted catalyst from step (a) flow upwardly and contact in the upper zone of the reactor conventional catalytic cracking feed entered, the reactor from at least two sites having different heights higher than the lower part of on the reactor, to produce an oil-gas mixture with a lot of diesel oils; (c) The resultant oil-gas mixture from step (b) enters a fractionation system where it is separated into the desired liquefied gas, gasoline and diesel oil products, heavy cycle oil and slurry are optionally circulated back to the reactor; (d) The spent catalyst may pass steam stripping and enters a regenerator and undergoes coke-burning and then is circulated back for reuse. The process can simultaneously increase the yields of liquefied gas and diesel oil, reduce the sulfur and olefin contents in the gasoline and raise the octane number. It can be carried out in an existing catalytic cracking unit which need not to be refitted in a big way. <IMAGE>

IPC 1-7

**C10G 11/18**

IPC 8 full level

**C10G 51/02** (2006.01); **C10G 11/18** (2006.01); **C10G 55/06** (2006.01)

CPC (source: EP US)

**C10G 11/18** (2013.01 - EP US)

Cited by

CN102952576A; CN105885938A; CN101928587A; CN105969423A; CN102952575A; US7425258B2; US7270739B2; US7267759B2

Designated contracting state (EPC)

DE NL

DOCDB simple family (publication)

**WO 0100750 A1 20010104**; EP 1205530 A1 20020515; EP 1205530 A4 20110302; EP 1205530 B1 20150722; JP 2003503580 A 20030128; JP 4361234 B2 20091111; NO 20016317 D0 20011221; NO 20016317 L 20020225; NO 334807 B1 20140602; US 6416656 B1 20020709

DOCDB simple family (application)

**CN 0000166 W 20000620**; EP 00938463 A 20000620; JP 2001506750 A 20000620; NO 20016317 A 20011221; US 60256800 A 20000622